# VCWRLF Norfolk Storm Water (2014) SLAF Norfolk Storm Water (2014) SLAF Norfolk Storm Water (2016)

- Loan Amount: \$1,195,000
- Grant Amount: \$539,441 (2014), \$348,950 (2016)
- Eight CIP Projects (4 under both Loan and Grant, 2 only under Loan, 1 only under Grant, 1 removed)
- Schedule: July 2015 December 2017
- Bottom Line: One project complete. One project removed. Schedules modified due to additional higher than expected cost estimates. Six of the seven remaining projects are now over the original projected budgets. Bids scheduled for Summer/Fall 2016.

# Anne Outten Pond Retrofit

Project Manager: CW Gaskill

Consultant: Kimley-Horn & Associates

**Construction Inspector**: Ryan Hudgins

**Project Scope**: The project will upgrade the existing pond to a Virginia DEQ Level II retention

pond. Improvements include dredging of the pond for additional volume,

installation of wetland benches, and addition of forebays.

Phosphorous Reduction: Grant: 39.84 lbs/yr (Final 39.38 lbs/yr)

Cost Effectiveness: Grant: \$17,518/lb (\$12,984/lb based on Eng Cost Estimates)

**PROJECT BUDGET**: Total -\$511,330

Grant (SLAF 2016) - \$348,950

CWRLF- \$151,600

**PROJECT STATUS:** 

Planning: 100% Complete
Design: 100% Complete
City Site Plan Approval November 2016
Specs to DEQ December 2016

Construction: 0% Complete

**PROJECT SCHEDULE**:

Design Completion: Fall 2016
Construction Start: Spring 2017
Construction Completion: Fall 2017

**CONTRACT**:

Advertise: February 2016 Award: May 2017

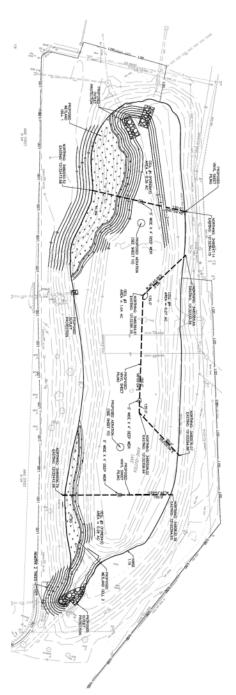
Contract Amount: TBD

**COMMUNITY CONNECTION:** 

Civic League: Attucks/Barberton/Church St

Ward/Super Ward: 4 / 7

**NOTES**: Revising based on DEQ comments



### Lake Modoc Pond Retrofit

Project Manager: CW Gaskill

Consultant: Kimley-Horn & Associates

**Construction Inspector**: Ryan Hudgins

**Project Scope**: The project will upgrade the existing pond

to a Virginia DEQ Level II retention pond. Improvements include dredging of the pond and addition of wetland benches, buffer

plantings, aeration, and forebays.

Phosphorous Reduction: CWRLF: 8.14 lbs/yr (Current: 32.96 lbs/yr)

Cost Effectiveness: \$15,260/lb based on Eng Cost Estimates

**PROJECT BUDGET**: Total -\$502,961

Grant-\$0

CWRLF- \$195,000

**PROJECT STATUS**:

Planning: 100% Complete Design: 100% Complete

City Site Plan Approval September 2016 Specs to DEQ October 2016

Construction: October 2016

**PROJECT SCHEDULE**:

Design Completion: Summer 2016
Construction Start: Spring 2017
Construction Completion: Fall 2017

**CONTRACT**:

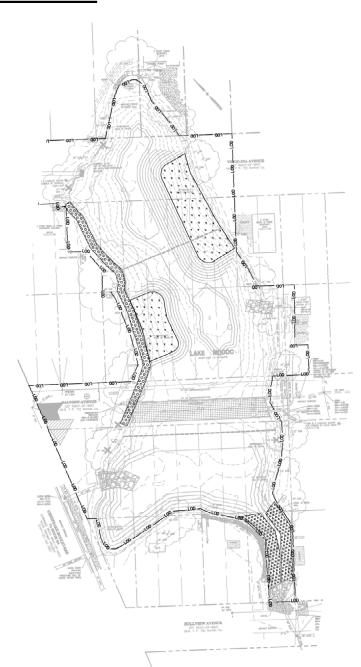
Advertise: December 2016 Award: March 2017

Contract Amount: TBD

**COMMUNITY CONNECTION:** 

Civic League: Bayview Ward/Super Ward: 5/6

**NOTES**: In site plan review. Right of Entry agreements are being collected.



### Mason Creek Outfall Improvements

Project Manager: Rey Hernandez
Consultant: Moffatt and Nichol

Construction Inspector: TBD

**Project Scope**: The project will repair nine failing outfalls.

Improvements may include dredging of

channels, installation of new outlet structures,

and restoration of adjacent shorelines.

Phosphorous Reduction: TBD

**PROJECT BUDGET**: Total - \$200,000.00

Grant-\$0

CWRLF- \$200,000.00

**PROJECT STATUS:** 

Planning: 100% Complete
Design: 90% Complete
City Site Plan Approval August 2016
Specs to DEQ October 2016
Construction: 0% Complete

**PROJECT SCHEDULE:** 

Design Completion: Summer 2016
Construction Start: Spring 2017
Construction Completion: Fall 2017

**CONTRACT**:

Advertise: December 2016 Award: March 2017

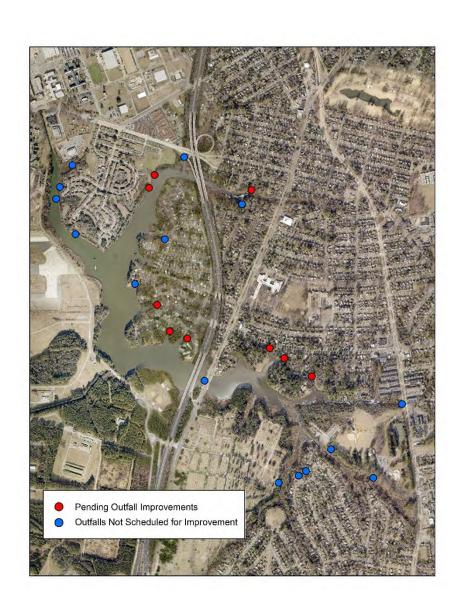
Contract Amount: TBD

**COMMUNITY CONNECTION:** 

Civic League: various

Ward/Super Ward: various

**NOTES:** JPA ready for submittal. Scheduling final resident outreach.



#### Parkdale Stream Restoration

Project Manager:CW GaskillConsultant:CDM SmithConstruction Inspector:Ryan Hudgins

**Project Scope:** The project will stabilize a short section of urban stream. Natural chancel design techniques will be applied,

including bank stabilization, log vanes, pools, and re-establishment of wetland vegetation. Culverts at both ends of the

project will be replaced as part of a separate effort.

Phosphorous Reduction: Grant: 36.04 lbs/yr (Final: 36.0 lbs/yr)

Cost Effectiveness: Grant: \$10,211/lb (\$10,040/lb based on BID)

**PROJECT BUDGET**: Total -\$369,443

Grant- \$184,000

CWRLF- \$220,800

**PROJECT STATUS:** 

Planning: 100% Complete Design: 100% Complete

City Site Plan Approval Completed
Specs to DEQ Completed
Construction: 0% Complete

**PROJECT SCHEDULE:** 

Design Completion: Winter 2016
Construction Start (NTP): Oct. 171, 2016
Construction Completion: Winter 2017

**CONTRACT**:

Advertise: April 2016 Award: August 2016 Contract Amount: \$283,443.00

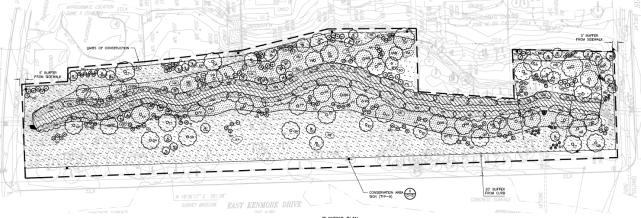
Contractor: EQR, LLC

**COMMUNITY CONNECTION:** 

Civic League: Suburban Acres

Ward/Super Ward: 2 / 6

**NOTES**: Pre-construction meeting held. Expect construction to start in early November.



#### **Ballentine School Pond Retrofit**

Project Manager:CW GaskillConsultant:CDM SmithConstruction Inspector:Ryan Hudgins

**Project Scope:** The project will upgrade the existing pond to a Virginia DEQ Level II retention pond. Improvements include

dredging of the pond and addition of wetland benches, buffer plantings, aeration, and forebays.

Phosphorous Reduction: Grant: 38.48 lbs/yr (Current: 66.0 lbs/yr)

Cost Effectiveness: Grant: \$16,471/lb (\$11,585/lb based on Eng Cost Estimates)

**PROJECT BUDGET**: Total - \$764,600

Grant- \$124,500

CWRLF- \$149,400

**PROJECT STATUS:** 

Planning: 100% Complete
Design: 100% Complete
City Site Plan Approval Complete
Specs to DEQ May 2016
Construction: 0% Complete

**PROJECT SCHEDULE:** 

Design Completion: Spring 2016
Construction Start: Winter 2017
Construction Completion: Spring 2017

**CONTRACT**:

Advertise: October 2016 Award: January 2017

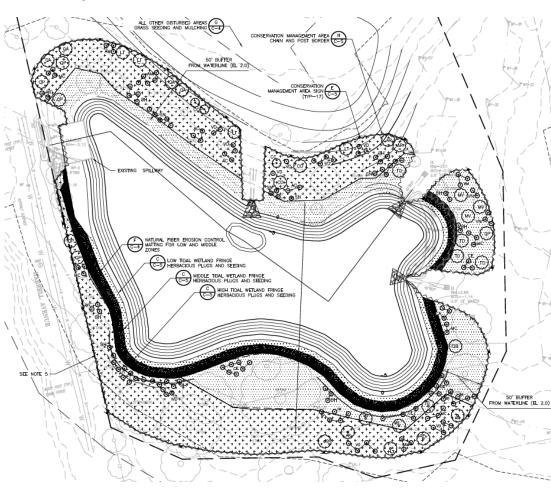
Contract Amount: TBD

**COMMUNITY CONNECTION:** 

Civic League: Ballentine Place

Ward/Super Ward: 3 / 7

NOTES: In DEQ review.



#### Juvenile Detention Center Pond Retrofit

Project Manager:CW GaskillConsultant:CDM SmithConstruction Inspector:Ryan Hudgins

**Project Scope:** The project will convert the existing dry pond to a Virginia DEQ Level II retention pond. Improvements

include outlet control modifications and addition of wetland benches, buffer plantings, aeration, and forebays.

Phosphorous Reduction: Grant: 29.38 lbs/yr (Final: 24.3 lbs/yr)

Cost Effectiveness: Grant: \$5,854/lb (\$17,617/lb based on Eng Cost Estimates)

PROJECT BUDGET: Total -\$428,100

Grant- \$86,000

CWRLF- \$103,200

**PROJECT STATUS**:

Planning: 100% Complete
Design: 100% Complete
City Site Plan Approval Completed
Specs to DEQ Completed
Construction: 0% Complete

**PROJECT SCHEDULE**:

Design Completion: Spring 2016
Construction Start: Winter 2017
Construction Completion: Spring 2017

**CONTRACT**:

Advertise: April 2016 (2<sup>nd</sup> Advert: Sept 18, 2016)

Award: January 2017

Contract Amount: TBD

**COMMUNITY CONNECTION:** 

Civic League: Lake Taylor

Ward/Super Ward: 4 / 7

NOTES: No bids received on initial advertisement. Bids due Oct 11



# **Greenway Park Constructed Stormwater Wetland**

Project Manager:Rey HernandezConsultant:TimmonsConstruction Inspector:Rick Lobko

**Project Scope**: The project will construct a stormwater wetland at a park in q frequently flooded area. Wetland benches, access paths,

and a floating wetland will be included.

Phosphorous Reduction: Grant & Final: 17.84 lbs/yr

Cost Effectiveness: Final: \$25,244/lb

**PROJECT BUDGET**: Total -\$450,361

Grant- \$144,941

CWRLF-\$0

**PROJECT STATUS:** 

Planning: 100% Complete
Design: 100% Complete
Construction: 100% Complete

PROJECT SCHEDULE:

Design Completion:

Construction Start: 5/1/14 Construction Completion: 5/1/15

**CONTRACT**:

Advertise: Award: Contractor:

**Contract Amount:** 

**COMMUNITY CONNECTION:** 

Civic League: Colonial Place/Riverview

Ward/Super Ward: 2/6

NOTES:



# SLAF Norfolk Storm Water (2015)

- Grant Amount: \$1,548,476
- Seven CIP Projects
- Schedule: present December 2019

 Bottom Line: One project contracted. 6 projects under design.

## Jeff Robertson Park Constructed Stormwater Wetland

Project Manager: CW Gaskill

Consultant: Kimley-Horn & Associates

**Construction Inspector**: Ryan Hudgins

**Project Scope:** The project will construct a stormwater wetland at a park. A small upstream wet pond

will be filled and a downstream ditch included in the BMP design.

Phosphorous Reduction: Grant: 7.94 lbs/yr (Final 8.61 lbs/yr)

Cost Effectiveness: Grant: \$19,188/lb (\$30,519/lb based on BID)

**PROJECT BUDGET**: Total -\$262,771

Grant- \$84,500

**PROJECT STATUS:** 

Planning: 100% Complete
Design: 100% Complete
City Site Plan Approval Completed
Specs to DEQ Completed
Construction: 0% Complete

PROJECT SCHEDULE:

Design Completion: Winter 2016
Construction Start: Fall 2016
Construction Completion: Spring 2016

**CONTRACT**:

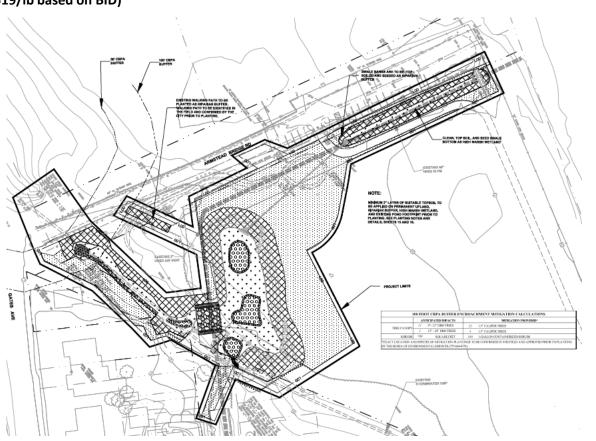
Advertise: March 2016
Award: June 2016
Contract Amount: \$188,085
Contractor: Parkway Grading

**COMMUNITY CONNECTION:** 

Civic League: West Ghent Ward/Super Ward: 2/6

NOTES: Project previously known as Bluebird Park.

Contract in place, awaiting right-of-entry agreements to start construction.



#### Roberts Road Pond Retrofit

Project Manager: CW Gaskill

Consultant: Kimley-Horn & Associates

**Construction Inspector**: Ryan Hudgins

**Project Scope**: The project will upgrade the existing pond

to a Virginia DEQ Level II retention pond. Improvements include dredging of the pond and addition of wetland benches, buffer

plantings, aeration, and forebays.

Phosphorous Reduction: Grant: 31.7 lbs/yr (Current: 20.7 lbs/yr)

Cost Effectiveness: Grant: \$8,612/lb (\$23,876/lb based on Eng Cost Estimates)

PROJECT BUDGET: Total -\$494,240

Grant- \$136,500

CWRLF-\$0

**PROJECT STATUS**:

Planning: 100% Complete
Design: 60% Complete
City Site Plan Approval October 2016
Specs to DEQ November 2016
Construction: 0% Complete

**PROJECT SCHEDULE:** 

Design Completion: Fall 2016
Construction Start: Spring 2017
Construction Completion: Fall 2017

**CONTRACT**:

Advertise: December 2016 Award: March 2017

Contract Amount: TBD

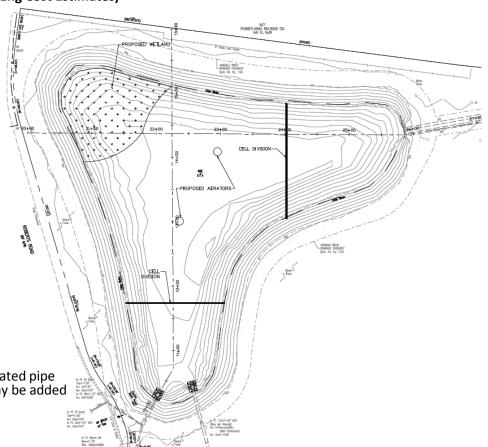
COMMUNITY CONNECTION:

Civic League: Broad Creek

Ward/Super Ward: 3/7

<u>NOTES</u>: Watershed area reduced due to absence of previously anticipated pipe construction by NRHA, thereby reducing nutrient reductions. Pipe may be added at a later date, but would increase costs by at least \$200,000.

In site plan review



#### Lake Taylor Pond Retrofit

**Project Manager**: CW Gaskill

Consultant: Kimley-Horn & Associates

**Construction Inspector**: Ryan Hudgins

Supervisor: TBD

**Project Scope**: The project will upgrade a former drinking water reservoir to a Virginia DEQ Level II retention pond.

Improvements include dredging of the lake and addition of cell divisions with boat access weirs, wetland benches,

buffer plantings, aeration, and forebays.

Phosphorous Reduction: Grant: 267.1 lbs/yr (Current 304.19 lbs/yr)

Cost Effectiveness: Grant: \$6,316/lb (\$6,203/lb based on Eng Cost Estimates)

PROJECT BUDGET: Total -\$1,886,952 Grant- \$843,500

**PROJECT STATUS:** 

Planning: 100% Complete

Design: 60% Complete (revising)

City Site Plan Approval: April 2017
Specs to DEQ; May 2017
Construction: 0% Complete

**PROJECT SCHEDULE:** 

Design Completion: Spring 2017
Construction Start: Fall 2017
Construction Completion: Fall 2019

**CONTRACT**:

Advertise: June 2017

Award: September 2017

Contract Amount: TBD

#### **COMMUNITY CONNECTION:**

Civic League: Lake Taylor/Hollywood Homes/Maple Hall

Ward/Super Ward: 4/7

**NOTES**: Two options: Level 1 with forebay only or Level 2 with forebay, aerators, and planting of aquatic wetland bench



#### Central Business Park Pond Retrofit

Project Manager: CW Gaskill

Consultant: Kimley-Horn & Associates

**Construction Inspector**: Ryan Hudgins

**Project Scope**: The project will upgrade the existing pond to a Virginia DEQ Level II retention pond. Improvements include

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dredging of the pond and addition of wetland benches, buffer plantings, aeration, and forebays.

Phosphorous Reduction: Grant: 7.4 lbs/yr (Current: 11.41 lbs/yr)

Cost Effectiveness: Grant: \$22,162/lb (\$30,365/lb based on Eng Cost Estimates)

**PROJECT BUDGET**: Total -\$346,464

Grant- \$82,000

**PROJECT STATUS**:

Planning: 100% Complete

Design: 100% Complete
City Site Plan Approval: September 2016

Specs to DEQ: October 2016
Construction: 0% Complete

**PROJECT SCHEDULE:** 

Design Completion: Fall 2016
Construction Start: Summer 2017

Construction Completion: Fall 2017

**CONTRACT**:

Advertise: February 2017 Award: May 2017

Contract Amount: TBD

**COMMUNITY CONNECTION:** 

Civic League: Chspk Grdns/Mamie Homes

Ward/Super Ward: 3/7

**NOTES**: To DEQ this week

## Templar Avenue Stream Restoration

Project Manager: CW Gaskill

**Consultant**: Kimley-Horn & Associates

**Construction Inspector**: Ryan Hudgins

**Project Scope**: The project will restore a short section of highly erosive urban stream channel, utilizing natural

channel design techniques. Improvements include bank stabilization and creation of riffle pools and a

wetland bench.

Phosphorous Reduction: Grant: 13.5 lbs/yr (Current: 17.6 lbs/yr)

Cost Effectiveness: Grant: \$10,519lb (\$9,233/lb based on Eng Cost Estimates)

**PROJECT BUDGET**: Total -\$162,494

Grant- \$81,247

PROJECT STATUS: PROJECT SCHEDULE:

Planning: 100% Complete

Design: 100% Complete Design Completion: Fall 2016

City Site Plan Approval: December 2016 Construction Start: Summer 2017

Specs to DEQ: January 2017 Construction Completion: Fall 2017

Construction: 0% Complete

**CONTRACT**: NOTES: To DEQ this week

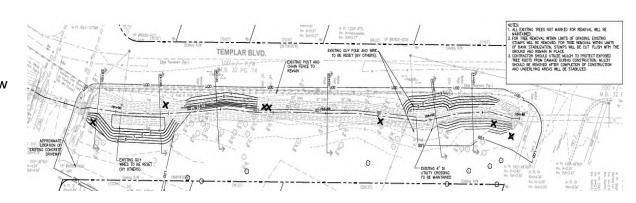
Award: May 2017

Contract Amount: TBD

**COMMUNITY CONNECTION:** 

Civic League: South Bayview

Ward/Super Ward: 5/6



# **Dune Street Constructed Wetland**

Project Manager: CW Gaskill

Consultant: Kimley-Horn & Associates

**Construction Inspector**: Ryan Hudgins

**Project Scope**: The project will upgrade a shallow ditch to a DEQ Level II Constructed Wetland by expanding the width of

the ditch, adding a forebay, and creating adjacent wetland cells.

Phosphorous Reduction: Grant: 6.1 lbs/yr (Current: 6.8 lbs/yr)

Cost Effectiveness: Grant: \$21,967/lb (\$33,578/lb based on Eng Cost Estimates)

PROJECT BUDGET: Total -\$228,332

Grant- \$72,666

**PROJECT STATUS**:

Planning: 100% Complete

Design: 100% Complete

City Site Plan Approval: October 2016

Specs to DEQ: November 2016

Construction: 0% Complete

**PROJECT SCHEDULE:** 

Design Completion: Fall 2016

Construction Start: Spring 2017

Construction Completion: Fall 2017

**CONTRACT**:

Advertise: January 2017

Award: February 2016

Contract Amount: TBD

**COMMUNITY CONNECTION:** 

Civic League: Northside

Ward/Super Ward: 5/6

**NOTES**: In site plan review

#### Hague Retention Pond Construction

Project Manager: Rey Hernandez
Consultant: Moffat & Nichol

Construction Inspector: TBD

**Project Scope:** The project will construct a DEQ Level I retention basin in a low lying area as part of a larger restoration of

the Hague watershed.

Phosphorous Reduction: Grant: 17.8 lbs/yr (Current: 17.80 lbs/yr)

Cost Effectiveness: Grant: \$29,660/lb (\$28,414/lb based on Eng Cost Estimates)

**PROJECT BUDGET**: Total -\$505,760

Grant- \$252,880

CWRLF-\$0

**PROJECT STATUS:** 

Planning: 100% Complete
Design: 0% Complete

City Site Plan Approval TBD Specs to DEQ TBD

Construction: 0% Complete

**PROJECT SCHEDULE**:

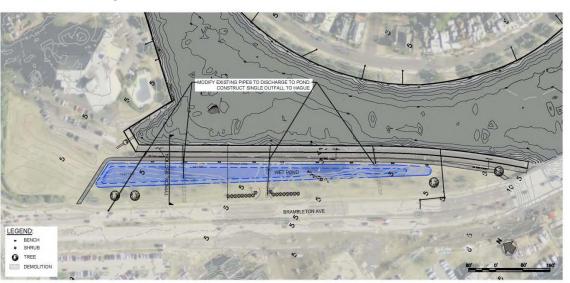
Design Completion: Spring 2017
Construction Start: Fall 2017
Construction Completion: Spring 2018

**CONTRACT**:

Advertise: TBD
Award: TBD
Contract Amount: TBD

**COMMUNITY CONNECTION:** 

Civic League: Ghent Ward/Super Ward: 2/6



<u>NOTES</u>: Delayed design and construction to allow for development of remainder of watershed plan, as outlined in grant application. Requested proposal from consultant for 30% of pond and adjacent living shoreline, to assist with grant applications for shoreline. Received proposal from Consultant for design.

# VCWRLF Norfolk Storm Water (2015)

- Loan Amount: \$1,000,000
- 1 brownfield project
- Schedule: July 2015 May 2017

 Bottom Line: Campostella Landfill air sparging system has a City approved design and bid specs prepared. Wetland mitigation credits will be included in the bid package.

# Campostella Landfill Air Sparging System

**Project Manager**: Rey Hernandez

**Consultant**: SCS **Construction Inspector**: TBD

**Project Scope**: The project will install an air sparging system

and necessary access infrastructure. Wetland mitigation credits will be required for minor

impacts.

Phosphorous Reduction: N/A

PROJECT BUDGET: Total - \$1,000,000

Grant-\$0

CWRLF-\$1,000,000

**PROJECT STATUS:** 

Planning: 100% Complete
Design: 100% Complete
City Site Plan Approval: 100% Complete
Specs to DEQ: August 2016
Construction: 0% Complete

**PROJECT SCHEDULE:** 

Design Completion: Spring 2016
Construction Start: Fall 2016
Construction Completion: Spring 2017

**CONTRACT**:

Advertise: September 2016 Award: October 2016

Contract Amount: TBD

**COMMUNITY CONNECTION:** 

Civic League:

Ward/Super Ward:

**NOTES:** Specs being prepared and anticipate delivery to DEQ next week

